Hart, Edward

Fr m:

O'Bryen; Barbara

Sent:

Monday, January 05, 2004 9:56 AM

T: Cc: Hart, Edward Rao, Manjunath N.

Subject:

RE: Sequence search request for 10/037,270

Edward.

According to Access (107718), you completed this search on 11-12-03. Apparently the results never made it to the examiner. Please provide him with another copy. Thanks,

Barb

----Original Message-----

From:

Rao, Manjunath N.

Sent:

Monday, January 05, 2004 9:44 AM

To:

STIC-Biotech/ChemLib

Subject:

FW: Sequence search request for 10/037,270

This search request was e-mailed on 11-5-03. I have so far not received the search results. Please let me know the status of the search request.

Thanks Manjunath

----Original Message----

From:

Rao, Manjunath N.

Sent:

Wednesday, November 05, 2003 1:09 PM

To:

STIC-Biotech/ChemLib

Subject:

Sequence search request for 10/037,270

From:

Manjunath N. Rao

Art Unit 1652, Room 10A11 Mail Box in Room 10D 01

Phone: 306-5681

Date:

11-5-03

Please search the following as soon as possible for application with serial number

10/037,270

1. SEQ ID NO: 482 against all commercial nucleic acid databases, commercial amino acid

<u>databases</u>, <u>issued patents/published applications database</u> and <u>pending</u>
<u>application database</u>. Please provide a <u>print</u> of all <u>results</u>

If you have any questions please call me at the above phone number.

Thanks

Manjunath N. Ra , Ph.D.
Bi technology Patent Examiner
Art Unit 1652, Room 10A11
Mail Box in 10D01
Crystal Mall 1, USPTO.

(FILE 'HOME' ENTERED AT 10:03:23 ON 05 JAN 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 10:03:30 ON 05 JAN 2004

SEA TRYPSINGEN

- . 3 FILE ADISCTI
- 72 FILE AGRICOLA
- 74 FILE ANABSTR
- 44 FILE AQUASCI
- 10 FILE BIOBUSINESS
- 11 FILE BIOCOMMERCE
- 1814 FILE BIOSIS
 - 59 FILE BIOTECHABS
 - 59 FILE BIOTECHDS
- 410 FILE BIOTECHNO
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- 1984 FILE CAPLUS
- 11 FILE CEABA-VTB
 - 1 FILE CEN
 - 5 FILE CIN
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- 58 FILE DISSABS
- 94 FILE DDFB
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- 630 FILE DGENE
- 94 FILE DRUGB
- 85 FILE DRUGU
- 8 FILE EMBAL
- 1358 FILE EMBASE
- 401 FILE ESBIOBASE
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- 49 FILE IFIPAT
- 168 FILE JICST-EPLUS
 - 2 FILE KOSMET
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- 542 FILE PASCAL
- 15 FILE PHIN
- 13 FILE PROMT
- 1 FILE RDISCLOSURE
- 1326 FILE SCISEARCH
- 723 FILE TOXCENTER
- 678 FILE USPATFULL
- 12 FILE USPAT2 4 FILE VETU
- 48 FILE WPIDS
- 48 FILE WPINDEX
 - QUE TRYPSINOGEN

FILE 'CAPLUS, BIOSIS, MEDLINE, EMBASE, SCISEARCH, TOXCENTER, USPATFULL, PASCAL, BIOTECHNO, ESBIOBASE, LIFESCI, JICST-EPLUS, CANCERLIT, CABA' ENTERED AT 10:04:43 ON 05 JAN 2004

3267 S L1 AND (ISOLAT? OR PURIF? OR CHARACT?)

1612 DUP REM L2 (1655 DUPLICATES REMOVED)

L4 866 S L3 AND PD=<1999 L5 46 S L4 AND CHICK? L6 335 S L4 AND HUMAN

=> log Y

L2

L3

=> d 16 ibib ab 330-335

ANSWER 330 OF 335

ACCESSION NUMBER:

USPATFULL on STN 78:4744 USPATFULL

TITLE:

Substrate for the quantitative determination of

proteolytic enzymes

INVENTOR (S):

Svendsen, Lars Gundro, Reinach, Switzerland Pentapharm A.G., Basel, Switzerland (non-U.S.

corporation)

NUMBER

KIND

PATENT INFORMATION: APPLICATION INFO.:

PATENT ASSIGNEE(S):

US 4070245

19780124

US 1976-697550

19760618 (5)

PRIORITY INFORMATION:

CH 1975-8224

19750623

DOCUMENT TYPE: FILE SEGMENT:

Utility

Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Naff, David M. Pennie & Edmonds

NUMBER OF CLAIMS:

18

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

7 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT:

1328

A substrate for the quantitative determination of enzymes in human and mammal body fluids as well as in animal cell extracts and glandular venoms of cold-blooded animals, which has the structure

NUMBER DATE

R.sup.1 -- Gly -- Pro -- X -- NH -- R.sup.2

wherein R.sup.1 represents hydrogen or a blocking acyl or sulfonyl group, R.sup.2 represents an aromatic hydrocarbon group which may carry substituents and X represents arginyl or lysyl, --NH--R.sup.2 being a chromogenic or fluorescent group capable of yielding a split product NH.sub.2 -- R.sup.2 the quantity of which can be measured by photometric, spectrophotometric or fluorescence-photometric methods.

ANSWER 331 OF 335 USPATFULL on STN

ACCESSION NUMBER:

77:40368 USPATFULL Fibrinolytic substances

INVENTOR(S):

TITLE:

King, John Burnham, Sandown Lodge, Glebe Road,

Rondebosch, Cape, South Africa

KIND

PATENT INFORMATION:

US 4039658

19770802

APPLICATION INFO.:

US 1975-628006

19751103 (5)

RELATED APPLN. INFO.:

Division of Ser. No. US 1973-347254, filed on 2 Apr.

1973, now abandoned

NUMBER

DATE

PRIORITY INFORMATION:

ZA 1972-2311 19720405

DOCUMENT TYPE:

FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Shapiro, Lionel M. Behr & Woodbridge

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

3 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A new fibrinolytic enzymatic product having also anticoagulant properties is recovered from bile. It can be further purified to yield several fractions, all having similar activities, their molecular weights varying between about 5,000 and 50,000. The product or its fibrinolytically active derivatives are used to dissolve fibrin and inhibit blood coagulation in vivo or in vitro.

ANSWER 332 OF 335 USPATFULL on STN

ACCESSION NUMBER:

77:21167 USPATFULL

TITLE:

Agarose containing affinity matrix materials

INVENTOR(S):

Nishikawa, A. Hirotoshi, Webster, NY, United States

Hixson, Jr., Harry F., Webster, NY, United States

PATENT ASSIGNEE(S):

Xerox Corporation, Stamford, CT, United States (U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION:

US 4020268

19770426

APPLICATION INFO.:

US 1974-526028

RELATED APPLN. INFO.:

19741121 (5)

Division of Ser. No. US 1972-306241, filed on 13 Nov 1972, now abandoned which is a division of Ser. No. US 1971-141778, filed on 12 May 1971, now patented, Pat.

No. US 3746622

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: NUMBER OF CLAIMS: Brown, Johnnie R.

EXEMPLARY CLAIM:

1 1

374

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A novel affinity matrix material for trypsin and trypsin-like enzymes is disclosed. Methods employing this material to isolate and/or purify crude extracts containing trypsin and trypsin-like enzymes and to store the purified enzymes obtained are also disclosed.

ACCESSION NUMBER:

ANSWER 333 OF 335 USPATFULL on STN

76:26340 USPATFULL

TITLE:

Preparing pancreatin

INVENTOR(S):

Lewis, deceased, Sheldon H., late of Chicago Heights,

IL, United States BY Barbara Lewis, administratrix Wilson Pharmaceutical & Chemical Corporation, Chicago,

IL, United States (U.S. corporation)

NUMBER KIND

PATENT INFORMATION:

PATENT ASSIGNEE(S):

US 3956483

19760511

APPLICATION INFO.:

US 1971-144230

19710517 (5)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1968-770443, filed on 24

Oct 1968, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Drezin, Norman A.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention deals with compositions having utility as digestive aids. Such compositions can be produced in a dry powder form, with amylotic and lipolytic activity in addition to the proteolytic activity normally present and with harmful bacteria eliminated therefrom by treating comminuted pancreas with aqueous medium containing calcium sulfate or calcium acetate, adding a proteolytic enzyme activator and after a

period required for enzyme activation, dehydrating the mixture at temperatures which will inactivate pathogenic bacteria.

ANSWER 334 OF 335 USPATFULL on STN 75:35715 USPATFULL

TITLE:

N-acylated peptides of amino aromatic sulfonic acids

and their derivatives

INVENTOR (S):

De Benneville, Peter L., Philadelphia, PA, United

States

PATENT ASSIGNEE(S):

ACCESSION NUMBER:

Rohm and Haas Company, Philadelphia, PA, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

US 3893992

19750708

APPLICATION INFO.:

19731212

US 1973-424020

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1970-91176, filed

on 19 Nov 1970, now patented, Pat. No. US 3801562,

issued on 2 Apr 1974

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted Gotts, Lewis

PRIMARY EXAMINER: ASSISTANT EXAMINER:

Suyat, Reginald J.

NUMBER OF CLAIMS:

11

EXEMPLARY CLAIM:

LINE COUNT:

1111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Polypeptides which are useful for evaluating pancreatic enzyme sufficiently in animal organisms have the formula

RCO--A.sub.n --NHR'CO--B.sub.m --NHZ

wherein

R is a hydrogen atom; a phenyl group; a phenyl group substituted with one or more halogen atoms, (C.sub.1 --C.sub.4) alkyl groups, hydroxy groups, (C.sub.1 --C.sub.4)alkoxy groups, (C.sub.1 --C.sub.4)alkoxy carbonyl groups, or similar substituents which will not interfere with the test efficacy of the polypeptide; a (C.sub.1 -- C.sub.12) alkyl group, preferably a (C.sub.1 --C.sub.6)alkyl group; a (C.sub.1 --C.sub.12)alkyl group substituted by one or more halogen atoms, (C.sub.1 --C.sub.4)alkoxy groups, hydroxy groups, acyloxy groups, preferably (C.sub.1 -- C.sub.4) alkanoyloxy or benzoyloxy, polyalkoxyalkyl groups, phenyl groups, or similar substituents which will not interfere with the test efficacy of the polypeptide; a (C.sub.1 --C.sub.12)alkoxy group, preferably a (C.sub.1 --C.sub.6) alkoxy group; an aryloxy group having up to 10 carbon atoms; or a divalent alkylene group having up to 6 carbon atoms, in which case the formula would be written as

R(--CO A.sub.n --NHR'CO--B.sub.m --NHZ).sub.2

or, when the blocking group is derived from oxalic acid, as

(CO--A.sub.n --NHR'CO--B.sub.m --NHZ).sub.2

Nhr'co is the amino acid linkage derived from L-phenylalanine, L-tyrosine, L-leucine, L-methionine, L-tryptophan, L-arginine, or L-lysine;

Z is a group of the formula ##SPC1##

Wherein

R" is a hydroxy group, a (C.sub.1 --C.sub.4) alkoxy group, a (C.sub.1

--C.sub.4)alkoxyalkoxy group, a (C.sub.1 --C.sub.8)aminoalkoxy group, an amino group, a (C.sub.1 -- C.sub.4) monoalkylamino group, a (C.sub.1 --C.sub.4)dialkylamino group, a group of the formula --NHCH.sub.2 COR", or a salt, such as the sodium, potassium, or ammonium salt, of the group in which R" is a hydroxy group;

Y is a group of the formula -- CO-- or -- SO. sub. 2 --;

X is a hydroxy group, a (C.sub.1 --C.sub.4) alkyl group, a halogen atom, a (C.sub.1 --C.sub.4) alkoxy group, or a similar substituent which will not interfere with the test efficacy of the polypeptide; and

n' is 0, 1, or 2;

A and B are the residues of low molecular weight amino acids, such as glycyl, alanyl, glycylglycyl, and the like, and

n and m are 0, 1, or 2.

ANSWER 335 OF 335 LIFESCI COPYRIGHT 2004 CSA on STN

ACCESSION NUMBER:

88:60053 LIFESCI

TITLE:

Possible lysosomal activation of pancreatic zymogens.

Activation of both human trypsinogens

by cathepsin B and spontaneous acid activation of

human trypsinogen 1.

AUTHOR:

Figarella, C.; Miszczuk-Jamska, B.; Barrett, A.J.

CORPORATE SOURCE:

Groupe Rech. Glandes Exocrines, 27 Blvd. Lei Roure, 13273

Marseille Cedex 09, France

SOURCE:

BIOL. CHEM. HOPPE-SEYLER., (1988) vol. 369, no.

suppl., pp. 293-298.

Meeting Info.: Protein Inhibitors and Biological Control.

Ljubljana/Brno (Yugoslavia). 4-7 Jul 1987.

DOCUMENT TYPE:

Journal

TREATMENT CODE:

Conference

FILE SEGMENT:

English

LANGUAGE:

English

SUMMARY LANGUAGE:

Human trypsinogens 1 and 2 were activated at the same

rate by pure human cathepsin B at pH 3.8. Human trypsinogen 1 was also spontaneously activated during incubation at acidic pH, activation being most rapid at pH 5.0. In contrast, trypsinogen 2 showed little or no activation under these

conditions. The presence of calcium salts (20 mM) delayed the onset of activation under all conditions tested.

=> d 16 ibib ab 319-329

L6

ANSWER 319 OF 335 USPATFULL on STN

ACCESSION NUMBER:

85:29854 USPATFULL

TITLE:

Purification and activity assurance of

precipitated heterologous proteins

INVENTOR(S):

Olson, Kenneth C., Burlingame, CA, United States

PATENT ASSIGNEE(S):

Genentech, Inc., South San Francisco, CA, United States

(U.S. corporation)

NUMBER	KIND	DATE
•		

PATENT INFORMATION:

US 4518526 19850521.

APPLICATION INFO.:

US 1984-615682 19840601 (6)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1982-452356, filed on 22

Dec 1982

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Schain, Howard E.

NUMBER OF CLAIMS:

11

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

9 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT:

1607

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A process for isolating and purifying a precipitated

heterologous protein from a host cell culture, including treating the host cell culture with a buffered solution of ionic strength suitable to solubilize most of the host protein but in which refractile heterologous protein is substantially insoluble, and disrupting the cells to form a supernatant and an insoluble fraction; treating the insoluble fraction with a strongly denaturing solution to solubilize the refractile heterologous protein; and recovering renatured heterologous protein.

ANSWER 320 OF 335 USPATFULL on STN

ACCESSION NUMBER:

85:25427 USPATFULL

TITLE:

Amidine compound, process for producing same and

anti-complement agent comprising same

INVENTOR (S):

Fujii, Setsuro, Toyonaka, Japan Yaegashi, Takashi, Funabashi, Japan Nakayama, Toyoo, Funabashi, Japan Sakurai, Yojiro, Kamakura, Japan Nunomura, Shigeki, Chiba, Japan Okutome, Toshiyuki, Tokyo, Japan

PATENT ASSIGNEE(S):

Torii & Co. Ltd., Tokyo, Japan (non-U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:

US 4514416 19850430

APPLICATION INFO.:

US-1984-611937 19840521 (6)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1982-350963, filed on 22

Feb 1982, now abandoned

NUMBER

PRIORITY INFORMATION:

JP 1981-27974 19810227 JP 1981-140650 19810907

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Shippen, Michael L.

LEGAL REPRESENTATIVE:

Beveridge, DeGrandi & Weilacher

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

2134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Amidino compounds represented by the formula (I) ##STR1## and pharmaceutically acceptable acid addition salts thereof are novel compounds and are useful as powerful antitrypsine, antiplasmin, antikallikrein and anti-thrombin agents. Having strong anti-Cl (Clr, Cls) activities and an anticomplement activity, they are also useful as anticomplement agents. These amidino compounds are prepared by usual esterification of carboxylic acid compounds represented by the formula (II)

R.sub.1 -- COOH -

(II)

with amidinophenol compound (III) and, if necessary, can be transformed into pharmaceutically acceptable acid addition salts thereof. ##STR2##

ANSWER 321 OF 335 USPATFULL on STN

ACCESSION NUMBER:

85:23828 USPATFULL

TITLE:

Purification and activity assurance of precipitated heterologous proteins

INVENTOR(S):

Jones, Andrew J. S., San Mateo, CA, United States Olson, Kenneth C., Burlingame, CA, United States

Shire, Steven J., San Mateo, CA, United States

PATENT ASSIGNEE(S):

Genentech, Inc., South San Francisco, CA, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

US 4512922

19850423

APPLICATION INFO.:

US 1984-615679

19840601 (6)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1982-452253, filed on 22

Dec 1982, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Schain, Howard E.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

9 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT:

1590

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A process for maintaining refractile proteins in solubilized form by replacing the strongly denaturing solution with a weakly denaturing

solution.

ACCESSION NUMBER:

ANSWER 322 OF 335 USPATFULL on STN 85:22306 USPATFULL

TITLE:

Purification and activity assurance of

precipitated heterologous proteins

INVENTOR(S):

Olson, Kenneth C., Burlingame, CA, United States

Pai, Rong-Chang, Foster City, CA, United States

PATENT ASSIGNEE(S):

Genentech, Inc., South San Francisco, CA, United States

(U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

APPLICATION INFO.:

US 4511503 19850416 US 1984-615680 19840601 (6)

9 Drawing Figure(s); 6 Drawing Page(s)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1982-452252, filed on 22

Dec 1982

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Schain, Howard E.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: LINE COUNT:

1528

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A process for dissolving refractile proteins from their insoluble form by using a strongly denaturing solution.

ANSWER 323 OF 335

USPATFULL on STN

ACCESSION NUMBER:

85:22305 USPATFULL

TITLE:

Purification and activity assurance of

precipitated heterologous proteins

INVENTOR(S):

Builder, Stuart E., Belmont, CA, United States

Ogez, John R., San Mateo, CA, United States

PATENT ASSIGNEE(S):

Genentech, Inc., South San Francisco, CA, United States

(U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 4511502

19850416

APPLICATION INFO.:

19840601 (6)

US 1984-615676

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1982-452355, filed on 22

Dec 1982

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Schain, Howard E.

NUMBER OF CLAIMS:

12

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

9 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A process for purifying heterologous proteins from higher molecular weight components, including dissolving the heterologous protein in a strong denaturing solution and removing the higher molecular weight components using a molecular sieve or high speed centrifugation.

ANSWER 324 OF 335 ACCESSION NUMBER:

USPATFULL on STN

84:62325 USPATFULL

TITLE:

Aromatic polysulfone type resin hollow fiber membrane

and process for producing the same

INVENTOR (S):

Nohmi, Takashi, Fuji, Japan

PATENT ASSIGNEE(S):

Asahi Kasei Kogyo Kabushiki Kaisha, Osaka, Japan

(non-U.S. corporation)

NUMBER

KIND DATE

PATENT INFORMATION:

US 4481260

19841106

19830128 (6)

APPLICATION INFO.:

US 1983-461992

NUMBER

PRIORITY INFORMATION:

JP 1982-12864

19820129

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

LEGAL REPRESENTATIVE:

Kendell, Lorraine T.

NUMBER OF CLAIMS:

Finnegan, Henderson, Farabow, Garrett & Dunner

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

15 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT:

AB

1560

An aromatic polysulfone type resin hollow fiber membrane having a thickness of less than 100 .mu.m and a three-layer structure of inner and outer surface skin layers and a void layer disposed therebetween and connected thereto. The hollow fiber membrane of the kind has an improved burst strength, while exhibiting an extremely excellent water permeability. Such a hollow fiber membrane can be produced by a process which comprises extruding a spinning solution of an aromatic polysulfone type resin in an organic polar solvent for said resin, said solution containing a glycol and having a resin concentration of from 10 to 35% by weight, from an annular spinning nozzle of which the orifice width is 10 to 110 .mu.m while simultaneously injecting an internal coagulating liquid into the annular spinning nozzle at an inside bore thereof, thereby to obtain an extrudate in the form of a hollow fiber, and introducing said extrudate into an external coagulating liquid.

ANSWER 325 OF 335

USPATFULL on STN

ACCESSION NUMBER:

82:53250 USPATFULL

TITLE:

Method of incorporating water-soluble heat-sensitive

therapeutic agents in albumin microspheres

INVENTOR (S):

Senyei, Andrew E., Chicago, IL, United States

Widder, Kenneth J., Chicago, IL, United States

PATENT ASSIGNEE(S):

Northwestern University, Evanston, IL, United States

(U.S. corporation)

NUMBER

KIND DATE PATENT INFORMATION:

APPLICATION INFO.:

US 1977-859842

19771212

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1977-820812, filed

on 1 Aug 1977, now abandoned

DOCUMENT TYPE:

Granted

FILE SEGMENT: PRIMARY EXAMINER:

NUMBER OF CLAIMS:

Lovering, Richard D.

EXEMPLARY CLAIM:

LINE COUNT:

429

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method is provided for incorporating water-soluble therapeutic agents in albumin microspheres. This method is particularly advantageous where the therapeutic agent is heat-sensitive. All steps of the method can be carried out at relatively low temperatures, such as ambient room temperature. The method may be applied to the preparation of intravascularly-administrable, magnetically-responsive microspheres.

ACCESSION NUMBER:

ANSWER 326 OF 335 USPATFULL on STN

TITLE:

81:38464 USPATFULL Method for the quantitative determination of

plasminogen activators

INVENTOR (S):

Svendsen, Lars G., Reinach BL, Switzerland

PATENT ASSIGNEE(S):

Pentapharm AG, Basel, Switzerland (non-U.S.

corporation)

NUMBER KIND

PATENT INFORMATION:

US 4278762

APPLICATION INFO .:

19810714 19790911 (6) US 1979-74551

RELATED APPLN. INFO.:

Division of Ser. No. US 1977-798426, filed on 19 May

1977, now patented, Pat. No. US 4190574, issued on 26

Feb 1980

NUMBER DATE

PRIORITY INFORMATION:

CH 1976-6816 19760528

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Castel, Benoit

LEGAL REPRESENTATIVE:

Pennie & Edmonds

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

1361

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to a method for the quantitative determination of enzymes in human and mammal body fluids and tissue extracts, using a substrate which has the structure

R.sup.1 --X--Y--Z--NH--R.sup.2

wherein X represents a group having the formula ##STR1## in which R.sup.3 is a straight or branched alkyl radical having 1 to 7 carbon atoms or a cyclohexyl or cyclohexylmethyl radical, Y represents a seryl group or a group having the formula --NH--(CH.sub.2).sub.n --CO-- in which n is an integer from 1 to 7, Z represents an arginyl or lysyl group, R.sup.1 represents hydrogen or an acyl or sulfonyl group and R.sup.2 represents an aromatic hydrocarbon radical which optionally may carry substituents. The method includes measuring by photometric, spectrophotometric or fluorescence-photometric methods the quantity of the split product NH.sub.2 R.sup.2 formed by the hydrolytic action of the biologically active factors on the substrate.

ANSWER 327 OF 335

USPATFULL on STN

ACCESSION NUMBER:

80:10301 USPATFULL

TITLE:

Substrate for the quantitative determination of

plasminogen activators

INVENTOR(S):

Svendsen, Lars G., Reinach, Switzerland

PATENT ASSIGNEE(S):

Pentapharm A.G., Basel, Switzerland (non-U.S.

corporation)

NUMBER

KIND

PATENT INFORMATION:

US 4190574

19800226

APPLICATION INFO.:

US 1977-798426

19770519

PRIORITY INFORMATION:

CH 1976-6816

. **- - - - -** -19760528

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Phillips, Delbert R.

Pennie & Edmonds

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

NUMBER DATE

LINE COUNT: 1382

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A substrate for the quantitative determination of enzymes in human and mammal body fluids and tissue extracts, which has the structure

R.sup.1 --X--Y--Z--NH--R.sup.2

wherein X represents a group having the formula ##STR1## in which R.sup.3 is a straight or branched alkyl radical having 1 to 7 carbon atoms or a cyclohexyl or cyclohexylmethyl radical, Y represents a seryl group or a group having the formula --NH--(CH.sub.2).sub.n --CO-- in which n is an integer from 1 to 7, Z represents an arginyl or lysyl group, R.sup.1 represents hydrogen or an acyl or sulfonyl group and R.sup.2 represents an aromatic hydrocarbon radical which optimally may carry substituents.

ANSWER 328 OF 335 USPATFULL on STN L6

ACCESSION NUMBER:

TITLE:

78:21498 USPATFULL

INVENTOR (S):

Process for isolating fibrinolytic substances King, John Burnham, Sandown Lodge, Glebe Rd.,

Rondebosch, Cape, South Africa

NUMBER

KIND DATE

PATENT INFORMATION: APPLICATION INFO.: US 4086140

19780425

US 1977-801348

19770527 (5)

RELATED APPLN. INFO.:

Division of Ser. No. US 1975-628006, filed on 3 Nov 1975, now patented, Pat. No. US 4039658 which is a division of Ser. No. US 1973-347254, filed on 2 Apr

1973, now abandoned

NUMBER

DATE

PRIORITY INFORMATION:

ZA 1972-2311

19720405

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted Behr, Omri M.

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Shapiro, Lionel M.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

3 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

A new fibrinolytic enzymatic product having also anticoagulant properties is recovered from bile. It can be further purified to yield several fractions, all having similar activities, their molecular weights varying between about 5,000 and 50,000. The product or its fibrinolytically active derivatives are used to dissolve fibrin and inhibit blood coaqulation in vivo or in vitro.

ANSWER 329 OF 335 USPATFULL on STN

78:14155 USPATFULL

ACCESSION NUMBER: TITLE:

Preparation of enteric coated digestive enzyme

compositions

INVENTOR (S):

Sipos, Tibor, Lebanon, NJ, United States

PATENT ASSIGNEE(S):

Johnson & Johnson, New Brunswick, NJ, United States

(U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:

US 4079125

19780314

APPLICATION INFO ..:

US 1976-744902

19761126 (5)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1975-585621, filed

on 10 Jun 1975, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility

PRIMARY EXAMINER:

Granted

NUMBER OF CLAIMS:

Rosen, Sam

30

EXEMPLARY CLAIM: 1 LINE COUNT: 1027 AB

Improved enteric coated digestive enzyme-containing compositions which are capable of withstanding hours of exposure to gastric fluids while protecting the biological activity of the enzymes and thereafter releasing the digestive enzymes in their biologically active state within 5 to 30 minutes after being exposed to intestinal fluids, these compositions comprising (a) an enzyme concentrate in (b) a binder system comprising at least about 0.5 wt. %, preferably about 1 to about 10 wt. % (based on the weight of the binder system plus enzymes) of (i) a binder, preferably selected from the group consisting of polyvinylpyrrolidone, microcrystalline cellulose (Avicel), cellulose acetate phthalate, methylcellulose and alginic acid, and preferably (ii) from about 0.1 to about 10 wt. % of a stabilizer, preferably selected from the group consisting of calcium carbonate, polyvinylpyrrolidone, cellulose acetate phthalate, methylcellulose, alginic acid, starch and modified starches, e.g., carboxymethyl starch (Primojel); and (c) from about 0.1% to about 30 wt. %, based on the weight of the total composite (enzyme plus binder system plus disintegrant) of a disintegrant, preferably selected from the group consisting of citric acid, sodium carbonate, sodium bicarbonate, calcium carbonate and other suitable carbonates, alginic acid, starch and modified starches, e.g., carboxymethyl starch (Primojel) are prepared by a process in which the presence of water is avoided and which includes the step of blending enzyme, binder and disintegrant in the presence of a selected inert solvent as well as the subsequent coating of the resulting enzyme/binder/disintegrant composite with from about 2.5% to about 10% by weight, based on the weight of the enzyme/binder/disintegrant composite, of a gastric juice insoluble, intestinal juice soluble, non-porous, pharmaceutically acceptable enteric coating polymer.



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DEFINITION
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VERSION
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                (bases 1 to 864)
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            Isolation and characterization of the chicken trypsinogen gene
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            Biochem. J. 307 (Pt 2), 471-479 (1995)
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  AUTHORS
            Wang, K.
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  JOURNAL
            Submitted (27-SEP-1994) Kai Wang, Department of Molecular
            Biotechnology, University of Washington, Seattle, WA 98195, USA
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PubMed	Demonstration of hum normal serum by radio	<u> </u>	nic trypsinogen i	n
	Largman C, Brodrick JW,	Geokas MC, Johnson	з ЈН.	
PubMed Services	A specific radioimmunoassa developed. The trypsin emplinactivated with tosyl-L-lysin the tracer to the serum inhibit normal serum level of immudetermined. The results of expendex G-200 gel filtration material in normal human sefraction of the zymogens syncirculation.	loyed as radioiodinated ne chloromethyl ketone itors alphal-antitrypsin moreactive anionic tryp experiments in which ser in suggest that essential frum is trypsinogen. Thi	tracer in the assay was in order to prevent be and alpha2-macrogle sin of 5.45 ng/ml was rum was fractionated by all of the immunor is finding implies that	as binding o bulin. A s by reactive t a small
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Determination of human pancreatic cationic trypsinogen in serum by radioimmunoassay.

Geokas MC, Largman C, Brodrick JW, Johnson JH.

PubMed Services

A specific radioimmunoassay has been developed for human pancreatic cationic trypsin. The assay has been employed for the determination of immunoreactive forms of pancreatic cationic trypsin in blood. The trypsin employed as radioiodinated tracer in the assay was inactivated with tosyl-L-lysine chloromethyl ketone (TLCK) to prevent binding of the tracer to the serum inhibitors while maintaining its immunoreactivity. The average normal serum level determined was 26 ng/ml, with a range of 12-41 ng/ml. Eight of nine patients with acute pancreatic inflammation had at least a 15-fold elevation of total serum immunoreactive cationic trypsin. Cationic trypsinogen and cationic trypsin bound to alpha1-antitrypsin cross-react strongly in the radioimmunoassay. Thus it is possible to measure these potential molecular forms of cationic trypsin in serum. When normal human serum was fractionated on Sephadex G-200, all of the immunoreactive material eluted as a single peak of approximately 23,000 mol wt. No cationic trypsin could be detected in association with alpha1-antitrypsin or alpha2-macroglobulin. The 23,000-mol-wt peak was definitively shown to contain trypsinogen by affinity chromatography and by activation with human enteropeptidase. The identification of cationic trypsinogen in blood implies that the zymogen is secreted into the circulation by the pancreas rather than entering the bloodstream via absorption from the intestine.

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PMID: 434151 [PubMed - indexed for MEDLINE]

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Entrez	☐1: J Biol Chem. 1978 Apr 25;253(8):2732-6.	Related Articles, Links
PubMed	Human cationic trypsinogen. Purification, ch	aracterization, and
	characteristics of autoactivation.	
	Brodrick JW, Largman C, Johnson JH, Geokas MC	•
PubMed		1.1
Services	Human pancreatic cationic trypsinogen has been purifie acetone powder of pancreatic tissue. After an initial ion step on sulfopropyl (SP)-Sephadex at pH 2.6, cationic to from the majority of trypsin activity by passage through bean trypsin inhibitor-agarose at high ionic strength. The further purified by affinity chromatography on the same strength. Highly purified trypsinogen was resolved from chymotrypsinogen by ion exchange chromatography on The purified zymogen was shown to be homogeneous by	exchange chromatography rypsinogen was separated an affinity column of lima e zymogen was then material at low ionic a containing SP-Sephadex at pH 6.0. y polyacrylamide gel
Related	electrophoresis at pH 2.1 and at pH 4.3 as well as by dis dodecyl sulfate-polyacrylamide gel electrophoresis. The	
Resour ces	trypsinogen was investigated at pH 5.6 and at pH 8.0. The human zymogen is rapid at pH 5.6 and is maximal in Ca2+. These results are in marked contrast to those previous	he rate of autoactivation of n approximately 1 mM

PMID: 632297 [PubMed - indexed for MEDLINE]

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autoactivation of bovine trypsinogen, which is extremely slow at pH 5.6 and which shows a dependence on at least 50 mM Ca2+ for maximum rate of activation (MacDonald, M. R., AND Kunitz, M. (1941) J. Gen. Physiol. 25,

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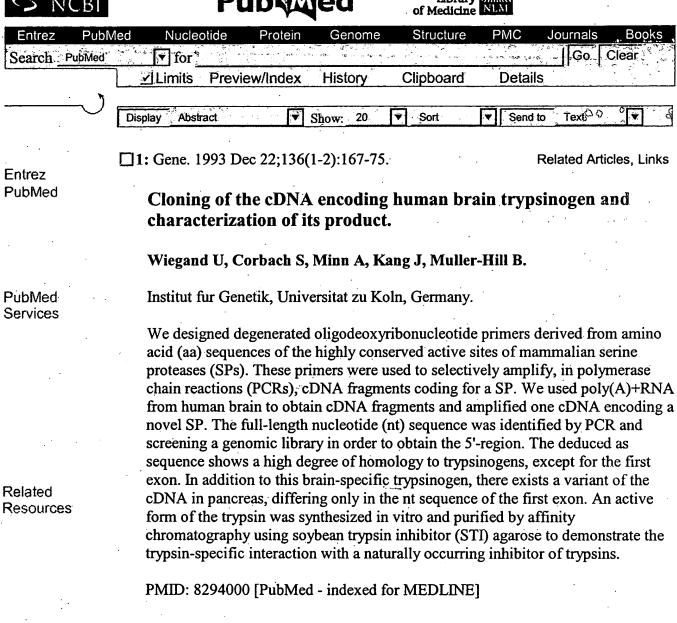


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